

Signuppge

Sign-Up Page The objective of this document is to outline the functionality and structure required to create a signup page for a web application.

Overview ■ The signup page is the initial step for users to register and create an account within the application. It will collect essential information from users and validate their inputs before creating an account. The signup page will consist of the following components: This component will include input fields for: Username Email Password Confirm Password It will include validation for each input field to ensure correctness. Error messages will be displayed for invalid inputs. A submit button to create the account. Acts as the main container for the SignupForm component. Handles the submission of the form data to create a new user account. Routes the user to the login page upon successful account creation.

Functionality: ■ **User Input Validation** ■ Validate username: Must be unique and have a minimum/maximum length. Validate email: Must follow email format. Validate password: Must meet complexity requirements (e.g., minimum length, contain uppercase, lowercase, and special characters). Confirm password: Must match the entered password. **User Account Creation** ■ Upon successful validation, the user account will be created and stored in the database. Passwords should be hashed before storing for security purposes. Handle server-side errors and display appropriate messages to the user.

Error Handling ■ Display specific error messages for each input field if validation fails. Display general error messages for server-side issues. **Routing** ■ Upon successful account creation, route the user to the login page. Provide a link to navigate back to the login page if needed.

Testing: ■ Conduct unit tests for each component and functionality. Test different scenarios (valid inputs, invalid inputs, server errors) to ensure the robustness of the signup process.

Future Enhancements: ■ Implement additional authentication methods (e.g., social login). Improve user experience with animations or user-friendly error messages. Implement account verification via email. Enhance security measures like CAPTCHA to prevent bots.

Conclusion: ■ The signup page for the web application is a crucial entry point for users to create accounts. Implementing proper validation, error handling, and routing are essential for a smooth user experience.